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| 20905 7501 03/27/2008 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET | | | EXAM | EXAMINER | |
| | | | WINAKUR, ERIC FRANK | | |
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| | | | 3768 | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

Application No. Applicant(s) 10/721,607 DIAB ET AL. Office Action Summary Examiner Art Unit Eric F. Winakur 3768 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 9-20 is/are allowed. 6) Claim(s) 1-8 and 21-23 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 11/25/03; 10/3/07.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Claim Objections

Claims 5 and 6 are objected to because of the following informalities: It appears
that using the phrase "corresponding with" instead of the term "for" in claim 5, line 9
may more clearly set forth the relationship. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1 4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Although claim 1 is drawn to a structure (detector) several of the claimed "elements" do not appear to define physical objects. In particular, the "input", "output", and "stored relationship" recitations appear to relate more to disembodied signals rather than physical objects. As such, the structure defined by the claim is not properly set forth.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English lanuaue.

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5. Claims 1 - 3, 7 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Woehrle (USPN 5,846,190 - cited by Applicant). Applicant's attention is drawn to Figure 1 (in particular the description of elements 41 - 45 in columns 9 - 10) and the description of column 2, line 66 - column 4, line 10 and column 5, lines 23 - 52. Woehrle teach calculating a useful-to-noise-signal ratio and comparing the calculated value with a threshold to obtain a result indicative of whether the sensor is properly attached to a subject or whether the probe is off of the subject. An alarm is output when the calculated value is below the threshold. Worhrle teaches the structure of claims 1 - 3, as best understood

6. Claims 21 - 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Baker, Jr. (USPN 6,035,223 - cited by Applicant). Baker, Jr. teaches a method in which measured data is used to compute seven "metrics" which are analyzed to determine if the measurement probe is properly attached to the subject (see column 1, line 65 - column 2. line 39: column 6. line 23 - column 9. line 24).

Double Patenting

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 USPQ4 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with

37 CFR 3.73(b).

8. Claims 1, 5, and 6 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 and 2 of U.S. Patent No. 6,260,114. Although the conflicting claims are not identical, they are not patentably distinct from each other because one in possession of the invention of claim 1 or 2 of the patent would necessarily be in possession of the invention of claim 1 or 5 and 6, respectively, of the instant application.

Allowable Subject Matter

9. The following is a statement of reasons for the indication of allowable subject matter: In addition to the references applied above, Applicant cites several relevant references on the 1449s. In particular, Pologe et al. (USPN 5,503,148) teaches an optical measurement arrangement that determines a probe-off condition (column 11); Nichols et al. (USPN 4,603,700) compares optical measurement results with thresholds to determine if the probe is applied to a subject (column 5, lines 12 - 22), and Shambroom (USPN 5,368,041) analyzes ECG data to determine lead off conditions. Polson et al. teach an additional pulse oximeter arrangement that monitors ambient light levels and compares the monitored level with a threshold (column 5, line 61 - column 6, line 18). None of the prior art, either alone or in combination, teaches or suggests a measurement method that includes indicating a probe-off condition when a signal

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strength value is below a signal strength limit for a corresponding signal quality value; providing an indication of poor signal strength based on a signal strength vector, and at least one of a signal strength limit or pulse rate density, in combination with the other claimed steps.

Claims 9 - 20 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric F. Winakur whose telephone number is 571/272-4736. The examiner can normally be reached on M-Th. 7:30-5: alternate Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571/272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Eric F Winakur/ Primary Examiner, Art Unit 3768